

```

28    118   3.4   1361   4   US-07-757-022B-40   Sequence 40, Appli
29    118   3.4   1363   4   US-07-757-022B-52   Sequence 52, Appli
30    118   3.4   1404   4   US-07-757-022B-2   Sequence 2, Appli
31    118   3.4   1404   4   US-07-757-022B-62   Sequence 62, Appli
32    118   3.4   1404   4   US-10-164-595-78   Sequence 78, Appli
33    117   3.4   1426   3   US-09-136-574A-43   Sequence 43, Appli
34    116.5 3.4   8991   4   US-08-714-741-32   Sequence 32, Appli
35    116.5 3.4   1964   2   US-08-790-912-3   Sequence 3, Appli
36    116.5 3.4   2052   2   US-08-790-912-2   Sequence 2, Appli
37    116   3.3   1384   3   US-08-776-255-11   Sequence 11, Appli
38    115.5 3.3   1719   2   US-08-159-568-4   Sequence 4, Appli
39    115.5 3.3   1719   2   US-08-159-411-4   Sequence 4, Appli
40    115.5 3.3   1719   3   US-08-116-859A-4   Sequence 4, Appli
41    115.5 3.3   1719   4   US-09-186-412-4   Sequence 4, Appli
42    115.5 3.3   1719   4   US-09-528-706-4   Sequence 4, Appli
43    114.5 3.3   325   4   US-09-510-031A-2   Sequence 2, Appli
44    114.5 3.3   641   3   US-08-961-983-160   Sequence 160, App
45    114.5 3.3   641   4   US-09-536-784-160   Sequence 160, App

```

## ALIGNMENTS

1 ~ \ \ y | h \ n

## RESULT 1

US-08-993-228-21

; Sequence 21, Application US/08993228

; GENERAL INFORMATION:

; APPLICANT: Jacobs, Kenneth

; APPLICANT: McCoy, John M.

; APPLICANT: Lawallie, Edward R.

; APPLICANT: Racine, Lisa A.

; APPLICANT: Meberg, David

; APPLICANT: Tracy, Maurice

; APPLICANT: Spaulding, Vickki

; APPLICANT: Asztotino, Michael J.

; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES

; TITLE OF INVENTION: ENCODING THEM

; NUMBER OF SEQUENCES: 33

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Genetics Institute, Inc.

; STREET: 87 Cambridgepark Drive

; CITY: Cambridge

; STATE: MA

; COUNTRY: U.S.A.

; ZIP: 02140

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.3.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/993,228

; FILING DATE:

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Springer, Suzanne A.

; REGISTRATION NUMBER: 41,323

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617) 498-8284

; TELEX/FAX: (617) 876-5851

; INFORMATION FOR SEQ ID NO: 21:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 828 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: protein

Query Match 41.6%; Score 1446.5; DB 2; Length 828;  
 Best Local Similarity 57.7%; Prod. No. 1.8e-126;  
 Matches 300; Conservative 65; Mismatches 124; Indels 31; Gaps 10;

US-08-993-228-21

1 MRNVPVPVYCRPLVKDPEPTMKLWCAAGVNLSGRNPNEEDDAGNGVTKP-GRDPLTCDRKG 59 ; INFORMATION FOR SEQ ID NO: 6:  
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 Db 314 MGNLPVPVYLRPLDEDTSMKLNCAVGVLNSGGKTR-DGGSVVGASVPKFDVAGLDTG 371 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 985 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 PCT-US96-03916-6

Qy 60 DGPDKSAHTSPE-----KGAKELPEMDATSSRWLTLTTSKVVIDANOFGTWVD 113  
 :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
 Qy 372 SKORSASOSLSDKLQBLKEQQKELKNAQELLSLWICSTSATKVLIDAVQPNILD 431  
 :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
 Qy 114 QFTIVCNHLVCKLSSITPASDSYPPGEMELSD-----VNPEDPGADGVLGAGT 162  
 :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
 Db 432 SPTVNCNLCAVSARETYPAGDLSSEGVQDKASLGSMTSNSSETDSLGGT 491  
 :|||:|||:|||:|||:|||:|||:|||:|||:  
 Qy 163 LVGC-ATRCNVPRSNCSRSSRGDTPLDQKGEGVATIANGKVNPSQT-BEATTEAVPDPG 220 Query Match 4.2%; Score 146.5; DB 5; Length 985;  
 :|||:|||:|||:|||:|||:|||:|||:|||:|||:  
 Db 492 VYCGSAEVTGATSPSTNGASFPVMDKRPMEAA-INSVEDENVPAAEETATE-GNAG 548 Best Local Similarity 19.7%; Pred. No. 0.00038; Indels 165; Gaps 28;  
 :|||:|||:|||:|||:|||:|||:|||:  
 Qy 221 PSEPETATLRPGBLTETHPDRAFTP----SSGPQPGSENGPEPDSSSRP-EPEPSSD 274 Matches 118; Conservative 83; Mismatches 234; Indels 118; Gaps 28;  
 :|||:|||:|||:|||:|||:|||:  
 Db 549 SAEDTDVQSTQGTVYERVFTDPLGVQIPDLSPVYQSSDNQDAYKDQISLTPLNEQDVRE 608  
 :|||:|||:|||:|||:|||:|||:  
 Qy 275 PIGAGGSSAPTPWLGAGNGWLHVSAVANWRKCLHSIKLUDSVLSIVRGVLVALADG 334  
 :|||:|||:|||:|||:|||:|||:  
 Db 609 BAQKMQSSLPTWMLGAQNGCLYHVHSSAQRWKCLHSIKLUDSVLSIVRGVLVALADG 668  
 :|||:|||:|||:|||:  
 Qy 335 TIAIFHRGEGDGMDSLNYHMLDLGHPHHSIRCMAVYYDRWYGKVNKHVTOQKTMQIEK 394  
 :|||:|||:|||:|||:|||:  
 Db 669 TIAIFHRGEGDGMDSLNYHMLDLGHPHHSIRCMAVYYDRWYGKVNKHVTOQKTMQIEK 728  
 :|||:|||:|||:  
 Qy 395 SFDAHPKRESOYRQLAWNGDGTWVSIRLDSTLRLYTAHTHOHQDIEPYVSKMLGTRK 454  
 :|||:|||:|||:  
 Db 729 SFDAHPKRESOYRQLAWNGDGTWVSIRLDSTLRLYTAHTHOHQDIEPYVSKMLGTRK 788  
 :|||:|||:  
 Qy 455 LGFSFVRLTALLVAGSPFLWVGNGVVISIPLTETVYHR 494  
 :|||:|||:  
 Db 789 LGFSFVRLTALMVSNCRLWVGNGVVISIPLTESKYIIR 828  
 :|||:  
 RESULT 2  
 PCT-US96-03916-6  
 Sequence 9, Application PC/TUS9603916  
 GENERAL INFORMATION:  
 APPLICANT: Wild, Martha A.  
 APPLICANT: Cochran, Mark D.  
 TITLE OF INVENTION: RECOMBINANT INFECTIOUS LARYNGOTRACHEITIS VIRUS  
 NUMBER OF SEQUENCES: 72  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Cooper & Dunham LLP  
 STREET: 1185 Avenue of the Americas  
 CITY: New York  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 10036  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US96/03916  
 FILING DATE: 23-MAR-1995  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/126,597  
 FILING DATE: 24-SEP-1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: White, John P.  
 REGISTRATION NUMBER: 28,678  
 REFERENCE/DOCKET NUMBER: 39116-A  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 278-0400  
 TELEX/FAX: (212) 391-0525

Qy 725 TWYSEF----HEMNISTASQTPLLDKV1VEVKFSNDGEVATCVSTYKSPYRVETNMKVYD 780 RESULT 3  
 PCT-US96-03916-66  
 Sequence 66, Application PC/TUS9603916  
 GENERAL INFORMATION:  
 APPLICANT: Wild, Martha A.  
 APPLICANT: Cochran, Mark D.  
 TITLE OF INVENTION: RECOMBINANT INFECTIOUS LARYNGOTRACHEITIS VIRUS  
 NUMBER OF SEQUENCES: 72  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Cooper & Dunham LLP  
 STREET: 1185 Avenue of the Americas  
 CITY: New York  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 10036  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS

C	28	51.6	1.4	909	4	US-09-252-991A-13568
C	29	51.6	1.4	3129	4	Sequence 13568, A
C	30	51.6	1.4	4188	4	Sequence 13871, A
C	31	51.6	1.4	8211	4	US-09-252-991A-13873
C	32	50.4	1.4	1317	4	Sequence 13774, A
C	33	50.2	1.4	1416	4	Sequence 13656, A
C	34	50.2	1.4	1512	4	Sequence 14463, AP
C	35	50	1.4	7218	1	Sequence 2955, AP
C	36	49.8	1.3	2435	4	Sequence 2728, AP
C	37	49.8	1.3	152331	3	Sequence 14, APP1
C	38	49.4	1.3	3177	1	Sequence 134, APP1
C	39	49	1.3	364	4	Sequence 4, APP1
C	40	48.8	1.3	408	4	Sequence 17202, A
C	41	48.8	1.3	1752	4	Sequence 3017, AP
C	42	48.8	1.3	13842	3	Sequence 17, APP1
C	43	48.8	1.3	36778	3	Sequence 30, APP1
C	44	48.8	1.3	38506	4	Sequence 5, APP1
C	45	48.8	1.3	38506	4	Sequence 19, APP1
						Sequence 1, APP1

## ALIGNMENTS

RESULT 1  
US-08-993-228-20  
 / Sequence 20, Application US/08993228  
 / Patent No. 5976838

/ GENERAL INFORMATION:  
 / APPLICANT: Jacobs, Kenneth  
 / McCoy, John M.  
 / APPLICANT: Lawallie, Edward R.  
 / APPLICANT: Recie, Lisa A.  
 / APPLICANT: Meberg, David  
 / APPLICANT: Spaulding, Vickki  
 / APPLICANT: Agostino, Michael J.  
 / TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES  
 / NUMBER OF SEQUENCES: 33  
 / CORRESPONDENCE ADDRESS:  
 / ADDRESSEE: Genetics Institute, Inc.  
 / STREET: 87 Cambridge Park Drive  
 / CITY: Cambridge  
 / STATE: MA  
 / COUNTRY: U.S.A.  
 / ZIP: 02140  
 / COMPUTER READABLE FORM:  
 / MEDIUM TYPE: Floppy disk  
 / COMPUTER: IBM PC compatible  
 / OPERATING SYSTEM: PC-DOS/MS-DOS  
 / SOFTWARE: PatentIn Release #1.0, Version #1.3.0  
 / CURRENT APPLICATION DATA:  
 / APPLICATION NUMBER: US/08/993,228  
 / FILING DATE:  
 / CLASSIFICATION:  
 / ATTORNEY/AGENT INFORMATION:  
 / NAME: Springer, Suzanne A.  
 / REGISTRATION NUMBER: 41,323  
 / TELECOMMUNICATION INFORMATION:  
 / TELEPHONE: (617) 498-8284  
 / TELEFAX: (617) 876-5851  
 / INFORMATION FOR SEQ ID NO: 20:  
 / SEQUENCE CHARACTERISTICS:  
 / LENGTH: 3113 base Pairs  
 / TYPE: nucleic acid  
 / STRANDEDNESS: double  
 / TOPOLOGY: linear  
 / MOLECULE TYPE: cDNA  
 US-08-993-228-20

Query Match 10.0; Score 370.2; DB 2; Length 3113;  
 Best Local Similarity 56.4%; Pred. No. 3.4e-71; Mismatches 608; Indels 69; Gaps 7;  
 Matches 874; Conservative 0; Misnatches 0;

QY 214 GGCCTGGGACACCGGATGAGAACGTCGGTGTACTGCCCTCTGGT 273  
 1038 GTTCAAGGTAAAATAAGTGAACATTACCTGCTCATCTGACCTCTGAT 1097  
 QY 274 GAGAAGCCACATGAACTGAGCTGGTGTGGGGGGTCAACCTGGCGTGAG 333  
 1098 GAAAGATACATCATGAGCTGGTGTGGCTGTGAACTTTATCTGTGGAG 1157  
 QY 334 CCCATGAGGAGCAGCTGAGAATGAG-----TAAGCCAGGCCAGGCC 381  
 Db 1158 ACCAGAGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1217  
 Qy 382 GATCCCTGACCTGCCACCGGAAGGAGGAGCCAAAGGCCACACTCTCCC 441  
 Db 1218 GATACTAGGAGCTAAAGGAAAGTGGCTCTCAAGAGTAGTTAGATAGTC 1277  
 Qy 442 GNG--AGCAGANGCCAACGGTCCUCAATTGGAAUCCACCTCCGCCGGTGC 498  
 Db 1277B GAACCTAAAGGACAGGAGCTAAAGGAAATTATCGCTCTCTAGTGTG 1337  
 Qy 499 ATCCCTACAGCACCCGTGACCCGGCAAGTGGTGTATCATCGAGCCAC 558  
 Db 1338 ATCTGTAACGACCTGACCGTCAAAACTTCTTATTTGATGCTGTTCAACCTGC 1397  
 Qy 559 ACGGTGGTGGACCAGTTCACCGGTCTCAACCGAACGGTGTGTGATCTCAG 618  
 1398 AACATCTAACGTTACAGTTTACGTTGCAACTCTGTGTGTGAAAGTGTCCA 1457  
 Qy 619 GGGCCAGGACAGGACTACCTCCGG-GGAGATGTCTCTGGACGGCAGTGAACCC 677  
 Db 1458 GGTGAGAGAAACGACTACCTGAGGAAAGATCTTCTGTCAGSTAGAC 1517  
 Qy 678 AGAGGACC-----  
 Db 1518 AAAGCATCTTTPATGTTGAAAGTATGAGCAACAGTCAGAGAGAGAGAG 705  
 Qy 706 GCCGGTATCACCTGTGTGGCTGCCACCCCTGAACTGCTCC 765  
 Db 1578 GGAGGTATCACAGTGTGTGTGAGGGGGCTGCACCTCTCCCT 1637  
 Qy 766 TCCCGAGGGACACCCCAAGTGTAGAACAGGGGAGGGGGGGGGGGGGGG 825  
 Db 1638 AGTACAATGGTGTCTCCAGTGTAGATAAACCAAGGAAATAGT 1697  
 Qy 826 GGGAGGTTAACCCGTCAGCTGAGGAGGGGGGGGGGGGGGGGGGGGGGG 885  
 Db 1698 GAGGTGTGAAATGTTCCAAAGGAAAGGAAAGAACGAACTGAGGTCAAGGGG 1754  
 Db 886 CCTGGGCCAGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 945  
 Db 1755 GCGGGGTGAGGTCAAGAACAGCTGGACTCTCCAAACTGGGTGTCAGGATGTC 1814  
 Qy 946 TTGACTGCC-----  
 Db 1815 TTACAGATCCTTGGAGTTGAGATCCAGAGGAGGAGGAGGAGGAGGAGG 1874  
 Db 991 AGCGAGAACGGCCAGGCTGAGCAGGAGGAGGAGGAGGAGGAGGAGGAGG 1047  
 Db 1875 AATGACTAGATGATAAAGATCAATAATGATGACTGCCAAATGACAGCTGGT 1934  
 Qy 1048 GGGAGCCACGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1107  
 Db 1935 AGGAAAGGAGCCAGAAATGAGTAGTTTACAAATATGTTGAGCTCAATA 1994  
 Qy 1108 GGTGGCTCTATGCACTTCGGGTGTGGCCAACTGGAGAAGAAGTCCTCATCAAG 1167  
 Db 1995 GGTGGCTCTATGCACTTCGGGTGTGGCCAACTGGAGAAGAAGTCCTCATCAAG 2054  
 Qy 1168 CTGAGGATTCTGTGTGTGAGCTGAGCTGAGGAGGAAATGTCATTCATCAA 1227  
 Db 2055 CTTAAGATTCGATCTGTGTGTGAGGAGGAAATCTGTGTGAGCCCTGCT 2114

Qy 2128 GCGGGACCTGGCCACCTTCACCGTGTGAGAGGGCCACTGGGTGCAACT 1287  
 Db 2115 GACGGACCTGCACTTCAAGAGGAGTGGCATGGTGTGAACT 2174  
 Qy 1288 CACCTAATGACCTGGGACCCGACACTCCATGGCTGATGGTGTGACAC 1347  
 Db 2115 CACCTTAGCTTACGCTGAGGCTCATCTCCATGGTGTGATGACTGTGTC 2234  
 Qy 1348 CGGGTGTGGCTGGCTGAGCTGAGCTGATCCAGGCCAAAGCATGAGATA 1407  
 Db 2235 AAAGTCCTGTCAGCTGAGCTATGGACAAATCTATGGTGTGAGCCATGAA 2294  
 Qy 1408 GAGAAGTCATTGAGGCCACCGGGGGAGGAGGAGGAGGAGGAGGAGG 1467  
 Db 2295 GAGAAATTTTGTGACATCCAGGAGGAGGAGGAGGAGGAGGAGGAGG 2354  
 Qy 1458 GGCATGGGGTATGGGTTCTCATGGCTGGACTCACCCCTGAGGCTTACCATGGCAC 1527  
 Db 2355 GGCATGGGGTCTCCAACTGCTGGATCTAGCTCTGATCTCATGGCAC 2414  
 Qy 1528 ACGGACCCAGCATCTACAGAGTGGACATGGCCACTAGTGTGAGGACT 1587  
 Db 2415 ACTTACACATCTACAGATGTGCACTTGGCTTATGAGCTTATGTGACT 2474  
 Qy 1588 GGCAGGCTGGGTTCTCTCTGTCAGCTCACGCCCTGCTGGCTGGCTGGC 1641  
 Db 2475 GAAACCTGGCTCTCTTTGTGAGAAATTAGCTCTTGTGTAATGTGTTG 2534  
 Qy 1648 TGCGTGGGACCCGCAACGGAGTGGCATCTCCATCCCCCTGAGAAGAGCT 1698  
 Db 2535 TGGTGGGACAGGAAATGGTGTGTTATCTCCATCCCCATTGAGAAAGT 2585

RESULT 2  
 US-09-023-173-4  
 ; Sequence 4, Application US/09023173  
 ; Patent No. 6066781  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Stullif, Thomas D.  
 ; APPLICANT: Rodriguez, Raymond L.  
 ; TITLE OF INVENTION: Production of Mature Proteins  
 ; TITLE OF INVENTION: in Plants  
 ; NUMBER OF SEQUENCES: 23  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Dehlinger & Associates  
 ; STREET: 350 Cambridge Ave., Suite 250  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 94306  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FASTSEQ FOR Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/023,173  
 ; FILING DATE: 13-FEB-1998  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 60/038,168  
 ; FILING DATE: 13-FEB-1997  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Petibory, Joanne R.  
 ; REGISTRATION NUMBER: P42995  
 ; REFERENCE/DOCKET NUMBER: 0665-0007.30  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 550-324-0880  
 ; TELEFAX: 650-324-0960  
 ; INFORMATION FOR SEQ ID NO: 4:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1140 base pairs  
 ; TYPE: nucleic acid  
 ;